

Application No.: 10/782326
Docket No.: HP0085USNA

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REMARKS

US7018776 (Rushkin)

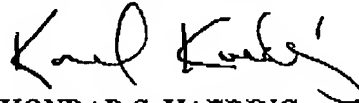
The present invention is directed to polyimide based solutions with useful adhesion properties to electronic substrates. Rushkin is directed to the application of a *polyamic acid film* which is subsequently imidized, whereas the present invention is directed to the application of a *polyimide film*. The polyimide based solutions of the present invention have no need for a polyimide precursor (i.e., a polyamic acid solution) and therefore: i. a high temperature cure (to convert the polyamic acid into a polyimide) is not necessary; and ii. the number of processing steps can be reduced. The claims' preamble has been changed from "comprising" to "consisting essentially of" to distinguish over solutions based upon polyamic acid, such as in Rushkin, since the use of polyamic acid as the base ingredient would not be useful, and indeed, would harm the essential function and character of the present invention.

US5714572 (Kato)

The Kato reference teaches a solvent system with cyclohexanone as the main component. Cyclohexanone has a boiling point of 155 degrees C and therefore does not meet the claimed boiling point requirement of between 180 to 250 degrees C. The claims' preamble has been changed from "comprising" to "consisting essentially of" to further distinguish the present invention over Kato. Kato requires the inclusion of a divalent siloxane group and a divalent aromatic group, both of which create a composition that is outside the essential character of the present invention. The divalent siloxane group will drop the Tg of the polyimide to a level which is not stable at conventional solder temperatures required for electronic applications. Indeed, the patent specification teaches against Kato by teaching that BAPP with several different anhydrides does not have sufficient solubility (table 3 examples 4 and 7, table 4 examples 8 and 10).

In view of the foregoing, allowance of the above-referenced application is respectfully requested.

Respectfully submitted,



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